APPENDIX A

SAMPLE LOCATION DESCRIPTIONS

HDMSe00018379

APPENDIX A

TABLE OF CONTENTS

ATTACHMENTS

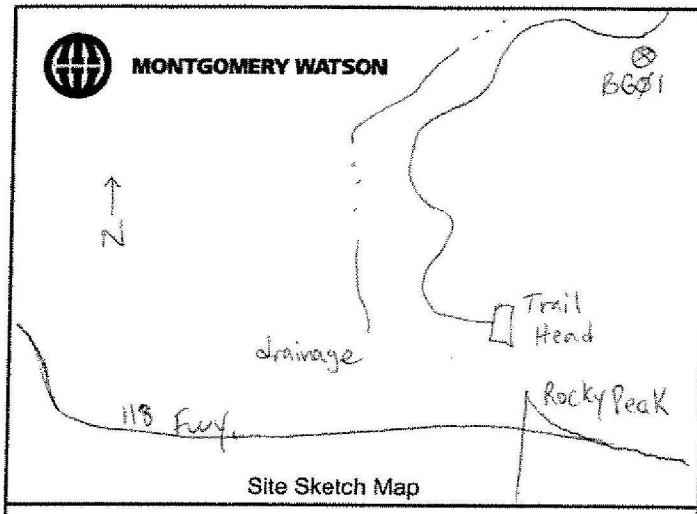
A-1	Soil Boring Logs
A-2	Sample Location Photographs

HDMSe00018380

ATTACHMENT A-1

SOIL BORING LOGS

MONTGOMERY WATSON



Site Sketch Map

Boring #: BG01 MW#: Sheet 1 of 1

Project: SSFL Background Soil Sampling

Job #: Site: SSFL/Rocky Peak

Logged By: E. VanderVelde Reviewed By: T. Burton

Drilling Contractor: N/A

Drill Rig Type/Method: N/A

Drillers Name: N/A

Borehole Diam./Drill Bit Type: trowel/shovel Total Depth 1.0'

Ref. Elev. —

Sampler Type: trowel/shovel

Depth to 1st Water (▽): — Time/Date:

Depth to Water After Drilling (▼): — Time/Date:

Depth to other Water Bearing Zones: —

Drill Start Time/Date: 4/14/05 Drill Finish Time/Date: 4/14/05

Well Completion Time/Date: —

Soil Boring Backfill Time/Date: —

PID/OVA	Sample Interval	Recovered (in.)	Blow Counts / 6 in.	Retained for Analysis	Casing Type & Size	Annulus Filler	Depth (Feet)	USCS Soil Type	Soil Description	Estimated % Of Gravel	Sand Coarse	Sand Medium	Sand Fine	Silt/clay
	X							SM	Silty sand, light yellowish brown (10YR 6/4), loose, dry, fine sand w/some med-coarse grains; no odor		10	10	50	30
									Total Depth 1' bgs					

QA/QC

HDMSe00018382

MONTGOMERY WATSON

Boring #: BG02 MW#: Sheet 1 of 1

Project: SSFL Background Soil Sampling

Job #: Site: SSFL / Santa Susana Park

Logged By: E. Van der Velde Reviewed By: T. Burton

Drilling Contractor: N/A

Drill Rig Type/Method: N/A

Drillers Name: N/A

Borehole Diam./Drill Bit Type: Total Depth 1.0' Ref. Elev. —

Site Sketch Map

Sampler Type: shovel/trowel

Depth to 1st Water (▽): — Time/Date:

Drill Start Time/Date: 4/4/05 Drill Finish Time/Date: 4/4/05

Depth to Water After Drilling (▼): — Time/Date:

Well Completion Time/Date: —

Depth to other Water Bearing Zones: —

Soil Boring Backfill Time/Date: —

PID/OVA	Sample Interval	Recovered (in.)	Blow Counts / 6 in.	Retained for Analysis	Casing Type & Size	Annulus Filler	Depth (Feet)	USCS Soil Type	Soil Description	Estimated % Of: Gravel	Sand: Coarse	Sand: Medium	Sand: Fine	Silt/clay
	X							ML	Sandy silt, dark brown (10YR 3/3), moist, soft, fine sands, mod. plasticity, no odor				40	60
									Total Depth 1' bgs					

QA/QC

HDMSe00018383

MONTGOMERY WATSON

Boring #: BG04 MW#: Sheet 1 of 1

Project: SSFL Background Soil Sampling

Job #: Site: SSFL

Logged By: E. Vander Velde Reviewed By: T. Burton

Drilling Contractor: N/A

Drill Rig Type/Method: N/A

Drillers Name: N/A

Borehole Diam./Drill Bit Type: Total Depth 1.0' Ref. Elev. —

Site Sketch Map

Sampler Type: Grab

Depth to 1st Water (▽): — Time/Date:

Drill Start Time/Date: 4/13/05 Drill Finish Time/Date: 4/13/05

Depth to Water After Drilling (▼): — Time/Date:

Well Completion Time/Date: —

Depth to other Water Bearing Zones: —

Soil Boring Backfill Time/Date: —

PID/OVA	Sample Interval	Recovered (in.)	Blow Counts / 6 in.	Retained for Analysis	Casing Type & Size	Annulus Filler	Depth (Feet)	USCS Soil Type	Soil Description	Estimated % Of Gravel	Sand Coarse	Sand Medium	Sand Fine	Silt/clay
	X							ML	Silt, brown (7.5YR 4/4), moist, soft, mod. plasticity, fine sand, no odor				20	80
									Total Depth 1' bgs					

QA/QC

HDMSe00018384

MONTGOMERY WATSON

Boring #: BKND-1 MW#: Sheet 1 of 1

Project: SSFL Background Soil Sampling

Job #: Site: SSFL

Logged By: E. VanderVelde Reviewed By: T. Burton

Drilling Contractor: N/A

Drill Rig Type/Method: N/A

Drillers Name: N/A

Borehole Diam./Drill Bit Type: Total Depth 0'

Ref. Elev. —

Site Sketch Map

Sampler Type: Grab w/sample container

Depth to 1st Water (▽): — Time/Date:

Depth to Water After Drilling (▼): — Time/Date:

Depth to other Water Bearing Zones: —

Drill Start Time/Date: 4/13/05 Drill Finish Time/Date: 4/13/05

Well Completion Time/Date: —

Soil Boring Backfill Time/Date: —

PID/OVA	Sample Interval	Recovered (in.)	Blow Counts / 6 in.	Retained for Analysis	Casing Type & Size	Annulus Filler	Depth (Feet)	USCS Soil Type	Soil Description	Estimated % Of: Gravel	Sand: Coarse	Sand: Medium	Sand: Fine	Silt/clay
	X							SM	Silty sand, light (brown yellowish) (10YR 4/6), dry, very loose, fine sand, some very fine grains, no odor				65	35

QA/QC

HDMSe00018385

MONTGOMERY WATSON

Boring #: BKND-2MW#: Sheet 1 of 1

Project: SSFL Background Soil Sampling

Job #: Site: SSFL

Logged By: E. Vander Velde Reviewed By: T. Burton

Drilling Contractor: N/A

Drill Rig Type/Method: N/A

Drillers Name: N/A

Borehole Diam./Drill Bit Type: N/A

Total Depth: Ø'

Ref. Elev. —

Site Sketch Map

Sampler Type: Grab w/sample container

Depth to 1st Water (▽): — Time/Date:

Drill Start Time/Date: 4/13/05 Drill Finish Time/Date: 4/13/05

Depth to Water After Drilling (▼): — Time/Date:

Well Completion Time/Date: —

Depth to other Water Bearing Zones: —

Soil Boring Backfill Time/Date: —

PID/OVA	Sample Interval	Recovered (in.)	Blow Counts / 6 in.	Retained for Analysis	Casing Type & Size	Annulus Filler	Depth (Feet)	USCS Soil Type	Soil Description	Estimated % Of: Gravel	Sand: Coarse	Sand: Medium	Sand: Fine	Silt/clay
	X							SM	Silty sand, yellowish brown (10YR 4/6), dry, loose - v. loose, very fine to fine sand, some fine gravel	10			55	35

QA/QC

HDMSe00018386

MONTGOMERY WATSON

Boring #: BKND-3 MW#: Sheet 1 of 1

Project: SSFL Background Soil Sampling

Job #: Site: SSFL

Logged By: E. Vander Velde Reviewed By: T. Burton

Drilling Contractor: N/A

Drill Rig Type/Method: N/A

Drillers Name: N/A

Borehole Diam./Drill Bit Type: N/A

Total Depth: ∅

Ref. Elev.: —

Site Sketch Map

Sampler Type: Grab w/sample container

Depth to 1st Water (▽): — Time/Date:

Depth to Water After Drilling (▼): — Time/Date:

Depth to other Water Bearing Zones: —

Drill Start Time/Date: 4/12/05 Drill Finish Time/Date: 4/12/05

Well Completion Time/Date: —

Soil Boring Backfill Time/Date: —

PID/OVA	Sample Interval	Recovered (in.)	Blow Counts / 6 in.	Retained for Analysis	Casing Type & Size	Annulus Filler	Depth (Feet)	USCS Soil Type	Soil Description	Estimated % Of: Gravel	Sand: Coarse	Sand: Medium	Sand: Fine	Silt/clay
	X							SM	Silty sand, yellowish brown (10 YR 4/6), dry, very loose, fine & very fine sand, no odor				70	30

QA/QC

HDMSe00018387

MONTGOMERY WATSON

Boring #: BKND-4 MW#: Sheet 1 of 1

Project: SSFL Background Soil Sampling

Job #: Site: SSFL

Logged By: E. Vander Velde Reviewed By: T. Burton

Drilling Contractor: N/A

Drill Rig Type/Method: N/A

Drillers Name: N/A

Borehole Diam./Drill Bit Type: N/A

Total Depth: 0'

Ref. Elev.: —

Site Sketch Map

Sampler Type: Grab w/sample container

Depth to 1st Water (▽): — Time/Date:

Drill Start Time/Date: 4/13/05 Drill Finish Time/Date: 4/13/05

Depth to Water After Drilling (▼): — Time/Date:

Well Completion Time/Date: —

Depth to other Water Bearing Zones: —

Soil Boring Backfill Time/Date: —

PID/OVA	Sample Interval	Recovered (in.)	Blow Counts / 6 in.	Retained for Analysis	Casing Type & Size	Annulus Filler	Depth (Feet)	USCS Soil Type	Soil Description	Estimated % Of: Gravel	Sand: Coarse	Sand: Medium	Sand: Fine	Silt/clay
	X							ML	Sandy silt, dark brown (7.5 YR 3/3), moist, very soft, low to med. plasticity, very fine to fine sands, no odor				40	60

QA/QC

HDMSe00018388

MONTGOMERY WATSON

Boring #: BKND-5 MW#: Sheet 1 of 1

Project: SSFL Background Soil Sampling

Job #: Site: SSFL

Logged By: E. Vander Velde Reviewed By: T. Burton

Drilling Contractor: N/A

Drill Rig Type/Method: N/A

Drillers Name: N/A

Borehole Diam./Drill Bit Type: N/A

Total Depth: Ø'

Ref. Elev.: —

Site Sketch Map

Sampler Type: Grab w/sample container

Depth to 1st Water (▽): — Time/Date:

Drill Start Time/Date: 4/13/05 Drill Finish Time/Date: 4/13/05

Depth to Water After Drilling (▼): — Time/Date:

Well Completion Time/Date: —

Depth to other Water Bearing Zones: —

Soil Boring Backfill Time/Date: —

PID/OVA	Sample Interval	Recovered (in.)	Blow Counts / 6 in.	Retained for Analysis	Casing Type & Size	Annulus Filler	Depth (Feet)	USCS Soil Type	Soil Description	Estimated % Of: Gravel	Sand: Coarse	Sand: Medium	Sand: Fine	Silt/clay
	X							ML	Sandy silt, brown (10YR 4/3), moist, very soft, nonplastic fines, very fine to fine sands				45	55

QA/QC

HDMSe00018389

MONTGOMERY WATSON

Boring #: BKND-6 MW#: Sheet 1 of 1

Project: SSFL Background Soil Sampling

Job #: Site: SSFL

Logged By: E. Vander Velde Reviewed By: T. Burton

Drilling Contractor: N/A

Drill Rig Type/Method: N/A

Drillers Name: N/A

Borehole Diam./Drill Bit Type: N/A

Total Depth: 0'

Ref. Elev.: —

Site Sketch Map

Sampler Type: Grab w/sample container

Depth to 1st Water (▽): — Time/Date:

Drill Start Time/Date: 4/12/05 Drill Finish Time/Date: 4/12/05

Depth to Water After Drilling (▼): — Time/Date:

Well Completion Time/Date: —

Depth to other Water Bearing Zones: —

Soil Boring Backfill Time/Date: —

PID/OVA	Sample Interval	Recovered (in.)	Blow Counts / 6 in.	Retained for Analysis	Casing Type & Size	Annulus Filler	Depth (Feet)	USCS Soil Type	Soil Description	Estimated % Of Gravel	Sand Coarse	Sand Medium	Sand Fine	Silt/clay
	X							SM	Silty sand, dark brown (7.5 YR 3/3) moist, very loose, vf-fine sand, no odor				55	45

QA/QC

HDMSe00018390

MONTGOMERY WATSON

Boring #: BKND-7 MW#: Sheet 1 of 1

Project: SSFL Background Soil Sampling

Job #: Site: SSFL

Logged By: E. Vander Velde Reviewed By: T. Burton

Drilling Contractor: N/A

Drill Rig Type/Method: N/A

Drillers Name: N/A

Borehole Diam./Drill Bit Type: N/A

Total Depth: Ø'

Ref. Elev.: —

Site Sketch Map

Sampler Type: Grab w/sample container

Depth to 1st Water (▽): — Time/Date:

Drill Start Time/Date: 4/12/05 Drill Finish Time/Date: 4/12/05

Depth to Water After Drilling (▼): — Time/Date:

Well Completion Time/Date: —

Depth to other Water Bearing Zones: —

Soil Boring Backfill Time/Date: —

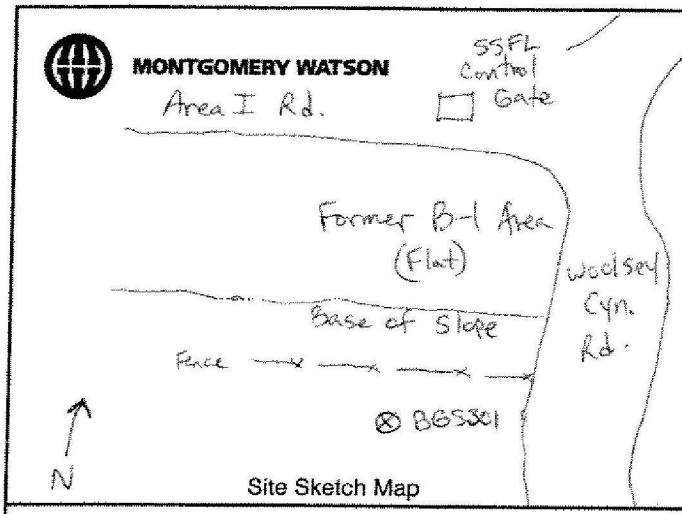
PID/OVA	Sample Interval	Recovered (in.)	Blow Counts / 6 in.	Retained for Analysis	Casing Type & Size	Annulus Filler	Depth (Feet)	USCS Soil Type	Soil Description	Estimated % Of: Gravel	Sand: Coarse	Sand: Medium	Sand: Fine	Silt/clay
	X							ML	Silt, dark brown (7.5 YR 3/4), moist, soft, moderate plasticity (20–30% clay), very fine & fine sands, no odor				10	90

QA/QC

HDMSe00018391

BGSS01

MONTGOMERY WATSON



Site Sketch Map

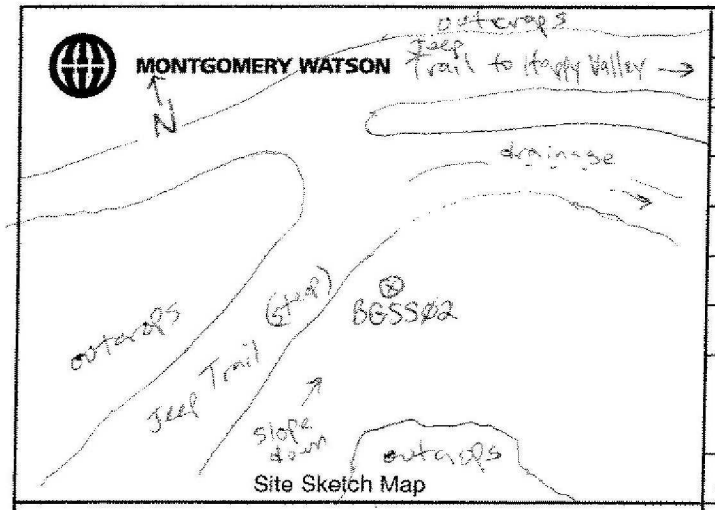
Boring #:	MW#:	Sheet 1 of 1	
Project: SSFL Background Soil Sampling			
Job #:	Site: SSFL		
Logged By: E. VanderVelde	Reviewed By: T. Burton		
Drilling Contractor: N/A			
Drill Rig Type/Method: N/A			
Drillers Name: N/A			
Borehole Diam./Drill Bit Type: N/A		Total Depth	0.5'
		Ref. Elev.	—
Sampler Type: shovel/trowel			
Depth to 1st Water (▽): —	Time/Date:	Drill Start Time/Date:	Drill Finish Time/Date:
Depth to Water After Drilling (▼): —	Time/Date:	Well Completion Time/Date: —	
Depth to other Water Bearing Zones: —		Soil Boring Backfill Time/Date: —	

PID/OVA	Sample Interval	Recovered (in.)	Blow Counts / 6 in.	Retained for Analysis	Casing Type & Size	Annulus Filler	Depth (Feet)	USCS Soil Type	Soil Description	Estimated % Of: Gravel	Sand: Coarse	Sand: Medium	Sand: Fine	Silt/clay
	X							SM	Silty sand, dark yellowish brown (10YR 4/6), moist, very loose, very fine to fine sands, some shale fragments up to 1", trace medium sand	5		tr	65	30

QA/QC

HDMSe00018392

MONTGOMERY WATSON



Site Sketch Map

Boring #: MW#:	Sheet 1 of 1
Project: BGSSØ2 Soil Background	
Job #:	Site: SSFL
Logged By: T. Burton	Reviewed By:
Drilling Contractor: N/A	
Drill Rig Type/Method: N/A	
Drillers Name: N/A	
Borehole Diam./Drill Bit Type: N/A	Total Depth: 1' / Ref. Elev.: —
Sampler Type: Grab w/ sample container	
Depth to 1st Water (▽): — Time/Date: —	Drill Start Time/Date: 4/19/05 1230 Drill Finish Time/Date: 1315
Depth to Water After Drilling (▼): — Time/Date: —	Well Completion Time/Date: —
Depth to other Water Bearing Zones: —	Soil Boring Backfill Time/Date: —

PID/OVA	Sample Interval	Recovered (in.)	Blow Counts / 6 in.	Retained for Analysis	Casing Type & Size	Annulus Filler	Depth (Feet)	USCS Soil Type	Soil Description	Estimated % Of: Gravel	Sand: Coarse	Sand: Medium	Sand: Fine	Silt/clay
	X						1	SM	Surface: grassy slope adjacent to sand stone outcrops + dirt road (overgrown)	tr	tr	15	55	30
							2		Silty sand (SM), dark yellowish brown (10YR 4/6), dry, very loose, vf ~~fine~~ med sand, trace coarse ~~medium~~ sand + pebble-sized weathered sandstone fragments; refusal @ 1' on sandstone					
							3		BGSSØ2 SØ1 @ 0.5' 1295					
									BGSSØ2 SØ2 @ 1.0' 1255					

QA/QC

HDMSe00018393

MONTGOMERY WATSON

Boring #: MW#: Sheet 1 of 1

Project: BGSS03

Job #: Site: SSFL

Logged By: T. Burton Reviewed By:

Drilling Contractor: N/A

Drill Rig Type/Method: N/A

Drillers Name: N/A

Borehole Diam./Drill Bit Type: N/A — Total Depth: 10'; Ref. Elev.:

Sampler Type: Continuous - stainless steel sleeve

Drill Start Time/Date: 4/13/05 0940 Drill Finish Time/Date: 1030

Well Completion Time/Date: —

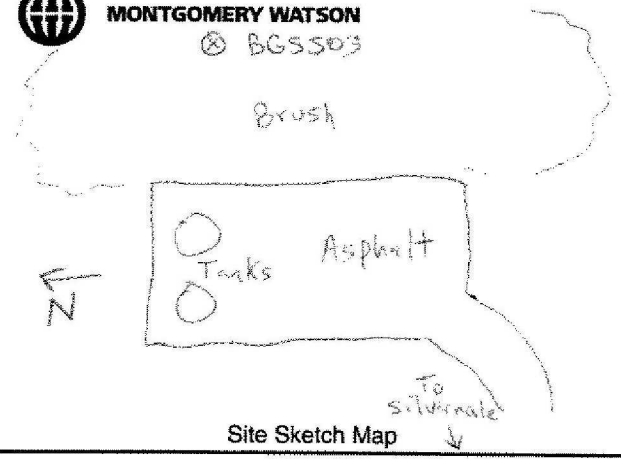
Soil Boring Backfill Time/Date: —

Depth to 1st Water (▽): — Time/Date: —

Depth to Water After Drilling (▼): — Time/Date: —

Depth to other Water Bearing Zones: —

Site Sketch Map



PID/OVA	Sample Interval	Recovered (in.)	Blow Counts / 6 in.	Retained for Analysis	Casing Type & Size	Annulus Filter	Depth (Feet)	USCS Soil Type	Soil Description	Estimated % Of: Gravel	Sand: Coarse	Sand: Medium	Sand: Fine	Silt/clay
	X						0	ML	Surface: flat soil w/ minor veg.	—	+	—	20	80
	X								@ 0.5': silt w/ sand (ML), dark	20	—	—	15	65
							1		brown (7.5YR3/3), moist, soft, vf sand, non-plastic; trace					
							2		yellowish brown fine sandstone frags					
							3		@ 10' = As above, w/ gravel (fine ss and interbedded siltstone fragments)					
							4		BGSS03 SB1 0.5' @ 1000					
									BGSS03 SB1 0.5' @ 1000					
							5		BGSS03 SB2 1.0' @ 1013					
							6							
							7							
							8							
							9							
							10							
							11							
							12							

QA/QC

HDMSe00018394

BG5504

MONTGOMERY WATSON

Boring #: MW#: Sheet 1 of 1

Project: SSFL Background Soil Sampling

Job #: Site: SSFL

Logged By: E. Vander Velde Reviewed By: T. Burton

Drilling Contractor: N/A

Drill Rig Type/Method: N/A

Drillers Name: N/A

Borehole Diam./Drill Bit Type: Total Depth 0.5'

Ref. Elev. —

Site Sketch Map

Sampler Type: Grab w/ sample container

Depth to 1st Water (▽): — Time/Date:

Drill Start Time/Date: 4/12/05 Drill Finish Time/Date: 4/12/05

Depth to Water After Drilling (▼): — Time/Date:

Well Completion Time/Date: —

Depth to other Water Bearing Zones: —

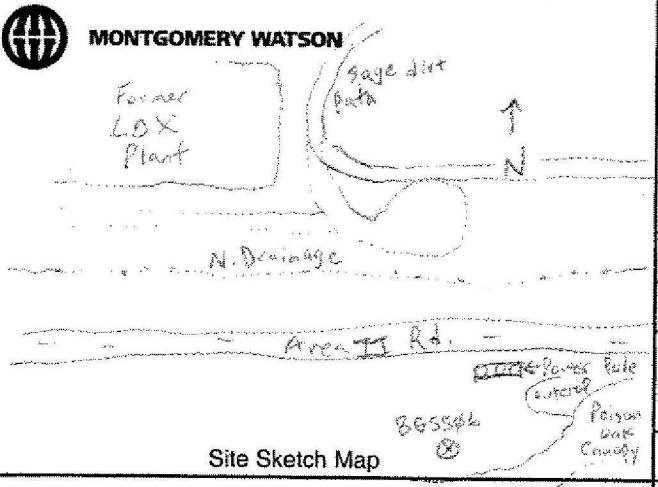
Soil Boring Backfill Time/Date: —

PID/OVA	Sample Interval	Recovered (in.)	Blow Counts / 6 in.	Retained for Analysis	Casing Type & Size	Annulus Filler	Depth (Feet)	USCS Soil Type	Soil Description	Estimated % Of Gravel	Sand Coarse	Sand Medium	Sand Fine	Silt/clay
	X							SM	Silty sand, reddish brown (2.5YR4/3), moist, very loose, vf-fine sands, no odor				65	35

QA/QC

HDMSe00018395

MONTGOMERY WATSON



Site Sketch Map

Boring #: MW#:	Sheet 1 of 1
Project: BGSS#6 Soil Background	
Job #:	Site: SSFL
Logged By: T. Burton	Reviewed By:
Drilling Contractor: N/A	
Drill Rig Type/Method: Grab sample	
Drillers Name: N/A	
Borehole Diam./Drill Bit Type: N/A	Total Depth: 0.5' / Ref. Elev.: —
Sampler Type: Sample Container - s/s sleeve	
Depth to 1st Water (▽): — Time/Date: —	Drill Start Time/Date: 4/13/05 1105 Drill Finish Time/Date: 1115
Depth to Water After Drilling (▼): — Time/Date: —	Well Completion Time/Date:
Depth to other Water Bearing Zones: —	Soil Boring Backfill Time/Date:

PID/OVA	Sample Interval	Recovered (in.)	Blow Counts / 6 in.	Retained for Analysis	Casing Type & Size	Annulus Filler	Depth (Feet)	USCS Soil Type	Soil Description	Estimated % Of: Gravel	Sand: Coarse	Sand: Medium	Sand: Fine	Silt/clay
	X						0	ML	Surface: flat, grassy area @ 0.5' silt w/ sand (ML), brown (7.5YR 4/3), dry, soft, w/ trace medium sand & 3/4" med. sandstone fragments; non-plastic; rootlets	tr	—	tr	15	85
							1							
							2							
							3							
							4		BGSS#6 S#1 0.5' @ 1110					
							5							
							6							
							7							
							8							
							9							
							10							
							11							
							12							

QA/QC

HDMSe00018396

MONTGOMERY WATSON

Boring #: MW#: Sheet 1 of 1

Project: BGSS07 Soil Background

Job #: Site: SSFL

Logged By: T. Burton Reviewed By:

Drilling Contractor: N/A

Drill Rig Type/Method: N/A

Drillers Name: N/A

Borehole Diam./Drill Bit Type: N/A

Total Depth: 0.5'

Ref. Elev.: —

Site Sketch Map

Sampler Type: Grab w/ sample container

Depth to 1st Water (▽): — Time/Date: —

Drill Start Time/Date: 4/19/05 1440 Drill Finish Time/Date: 1520

Depth to Water After Drilling (▼): — Time/Date: —

Well Completion Time/Date: —

Depth to other Water Bearing Zones: —

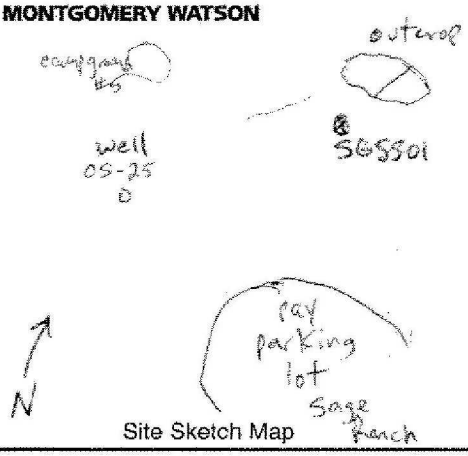
Soil Boring Backfill Time/Date: —

PID/OVA	Sample Interval	Recovered (in.)	Blow Counts / 6 in.	Retained for Analysis	Casing Type & Size	Annulus Filler	Depth (Feet)	USCS Soil Type	Soil Description	Estimated % Of: Gravel	Sand: Coarse	Sand: Medium	Sand: Fine	Silt/clay
	X							ML	Surface: soil slope beneath scrub oak	—	—	—	fr	100
									Silt (ML), dark brown (7.5YR 4/4)					
							1		dry, v. soft, w/ trace v.f. sand					
							2		BGSS07 Sp1 @ 1% 0.5'					

QA/QC

HDMSe00018397

MONTGOMERY WATSON



Site Sketch Map

Boring #: MW#:	Sheet 1 of 1
Project: SGSSPI SØI Soil Background	
Job #:	Site: Sage Ranch/SSFL
Logged By: T. Burton	Reviewed By:
Drilling Contractor: N/A	
Drill Rig Type/Method: N/A	
Drillers Name: N/A	
Borehole Diam./Drill Bit Type: N/A	Total Depth Ø' / Ref. Elev. —
Sampler Type: Grab w/sample Containers	
Depth to 1st Water (▽): — Time/Date: —	Drill Start Time/Date: 4/14/05 1345 Drill Finish Time/Date: 1515
Depth to Water After Drilling (▼): — Time/Date: —	Well Completion Time/Date: —
Depth to other Water Bearing Zones: —	Soil Boring Backfill Time/Date: —

PID/OVA	Sample Interval	Recovered (in.)	Blow Counts / 6 in.	Retained for Analysis	Casing Type & Size	Annulus Filler	Depth (Feet)	USCS Soil Type	Soil Description	Estimated % Of Gravel	Sand Coarse	Sand Medium	Sand Fine	Silt/clay
	X							ML	Surface: gentle slope, grassy	—	—	tr	30	70
									Sandy silt (ML), brown (7.5YR4/4) soft, dry, vf-fine sand, non-plastic; with rootlets					
									SGSSPISØI 0' @ 1400					

QA/QC

HDMSe00018398

MONTGOMERY WATSON

Boring #: MW#: Sheet 1 of 1

Project: BZSS01 Soil Background

Job #: Site: SSFL / Bell Canyon

Logged By: T. Burton Reviewed By:

Drilling Contractor: N/A

Drill Rig Type/Method: Grab

Drillers Name: N/A

Borehole Diam./Drill Bit Type: N/A

Total Depth: 0'

Ref. Elev.: —

Site Sketch Map

Sampler Type: s/s sleeve (grab)

Depth to 1st Water (▽): — Time/Date: —

Drill Start Time/Date: 4/12/05 1445 Drill Finish Time/Date: 1455

Depth to Water After Drilling (▼): — Time/Date: —

Well Completion Time/Date: —

Depth to other Water Bearing Zones: —

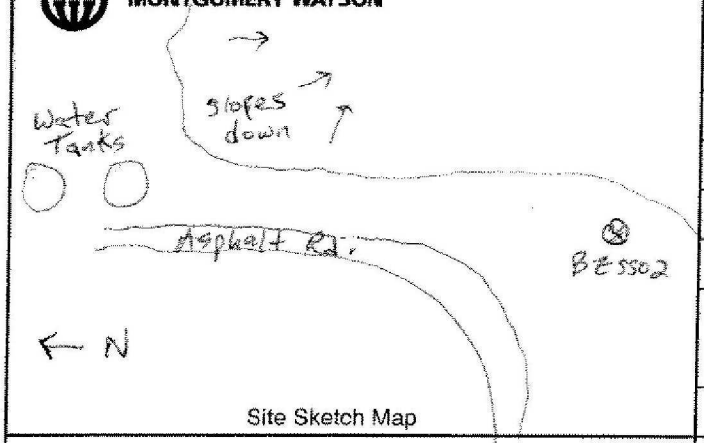
Soil Boring Backfill Time/Date: —

PID/OVA	Sample Interval	Recovered (in.)	Blow Counts / 6 in.	Retained for Analysis	Casing Type & Size	Annulus Filler	Depth (Feet)	USCS Soil Type	Soil Description	Estimated % Of: Gravel	Sand: Coarse	Sand: Medium	Sand: Fine	Silt/clay
	X						0	ML	Surface: Thick grass; flat	~~re~~ tr			5	95
							1		Silt (ML), dark grayish brown (10YR 4/2), moist, soft, some vf sand					
							2							
							3							
							4		BZSS01SB1, D@1 @ 1450 @ 0' bgs					
							5		Sample collected below root zone, approx 1.5-2" bgs					
							6							
							7							
							8							
							9							
							10							
							11							
							12							

QA/QC

HDMSe00018399

MONTGOMERY WATSON



Site Sketch Map

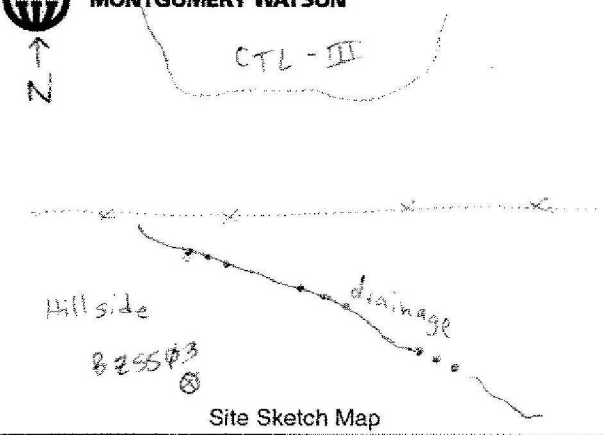
Boring #: MW#:	Sheet 1 of 1
Project: BES502	Soil Background
Job #:	Site: SSFL/Bell Canyon
Logged By: T. Burton	Reviewed By:
Drilling Contractor: N/A	
Drill Rig Type/Method: N/A	
Drillers Name: N/A	
Borehole Diam./Drill Bit Type: N/A	Total Depth: 0.5' / Ref. Elev.: —
Sampler Type: Grab w/ sample sleeve	
Depth to 1st Water (▽): — Time/Date: —	Drill Start Time/Date: 4/19/05 1520 Drill Finish Time/Date: 1550
Depth to Water After Drilling (▼): — Time/Date: —	Well Completion Time/Date: —
Depth to other Water Bearing Zones: —	Soil Boring Backfill Time/Date: —

PID/OVA	Sample Interval	Recovered (in.)	Blow Counts / 6 in.	Retained for Analysis	Casing Type & Size	Annulus Filler	Depth (Feet)	USCS Soil Type	Soil Description	Estimated % Of: Gravel	Sand: Coarse	Sand: Medium	Sand: Fine	Silt/clay
	X							ML	Surface: flat, grassy area above dip slope	20		tr	30	50
									Sandy silt w/ gravel (ML), brown (10YR 4/3), dry, soft, very fine sand; angular fragments of vf sandstone up to 1/4"; trace rootlets; non-plastic					
									BZ55Ø2 SØ1 Ø.5' 1540					

QA/QC

HDMSe00018400

MONTGOMERY WATSON



Site Sketch Map

Boring #: MW#:	Sheet 1 of 1
Project: BZSSØ3	Soil Background
Job #:	Site: SSFL
Logged By: T. Burton	Reviewed By:
Drilling Contractor: N/A	
Drill Rig Type/Method: N/A	
Drillers Name: N/A	
Borehole Diam./Drill Bit Type: N/A	Total Depth: 1.0' / Ref. Elev.: —
Sampler Type: Trowel / grab w/sample container	
Depth to 1st Water (▽): — Time/Date: —	Drill Start Time/Date: 4/18/05 1510 Drill Finish Time/Date: 1550
Depth to Water After Drilling (▼): — Time/Date: —	Well Completion Time/Date: —
Depth to other Water Bearing Zones: —	Soil Boring Backfill Time/Date: —

PID/OVA	Sample Interval	Recovered (in.)	Blow Counts / 6 in.	Retained for Analysis	Casing Type & Size	Annulus Filler	Depth (Feet)	USCS Soil Type	Soil Description	Estimated % Of: Gravel	Sand: Coarse	Sand: Medium	Sand: Fine	Silt/clay
	X							ML	Surface: grassy slope	—	—	—	—	10
	X						1		Silt (ML), dark yellowish brown (10YR4/6), dry, medium stiffness, non-plastic but increasing plasticity in 1' sample (clay content ≈ 10-15%)	—	—	—	—	100
							2							
									BZSSØ3SØ1 0.5' @ 1530					
									BZSSØ3SØ2 1.0' @ 1535					

QA/QC

HDMSe00018401

BZSS04

MONTGOMERY WATSON

Boring #: MW#: Sheet 1 of 1

Project: SSFL Background Soil Sampling

Job #: Site: SSFL

Logged By: E. Vander Velde Reviewed By: T. Burton

Drilling Contractor: N/A

Drill Rig Type/Method: N/A

Drillers Name: N/A

Borehole Diam./Drill Bit Type: N/A

Total Depth: 0.5'

Ref. Elev.: —

Site Sketch Map

Sampler Type: Grab w/ sample container

Depth to 1st Water (▽): — Time/Date:

Drill Start Time/Date: 4/13/05 Drill Finish Time/Date: 4/13/05

Depth to Water After Drilling (▼): — Time/Date:

Well Completion Time/Date: —

Depth to other Water Bearing Zones: —

Soil Boring Backfill Time/Date: —

PID/OVA	Sample Interval	Recovered (in.)	Blow Counts / 6 in.	Retained for Analysis	Casing Type & Size	Annulus Filler	Depth (Feet)	USCS Soil Type	Soil Description	Estimated % Of Gravel	Sand Coarse	Sand Medium	Sand Fine	Silt/clay
	X							SM	Silty sand, yellowish brown (10YR4/6), dry, very loose, v.f. - fine sand, no odor				55	45

QA/QC

HDMSe00018402

MONTGOMERY WATSON

Boring #: MW#: Sheet 1 of 1

Project: BZSSP5 Soil Background

Job #: Site: SSFL

Logged By: T. Burton Reviewed By:

Drilling Contractor: N/A

Drill Rig Type/Method: N/A

Drillers Name: N/A

Borehole Diam./Drill Bit Type: N/A — Total Depth: 0' — Ref. Elev.: —

Site Sketch Map

Sampler Type: Sample Container (Grab)

Depth to 1st Water (▽): — Time/Date: — Drill Start Time/Date: 4/15/05 Drill Finish Time/Date: 4/15/05

Depth to Water After Drilling (▼): — Time/Date: — Well Completion Time/Date: —

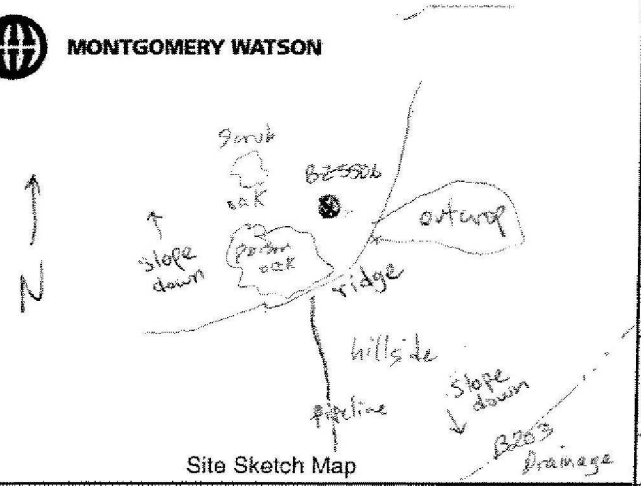
Depth to other Water Bearing Zones: — Soil Boring Backfill Time/Date: —

PID/OVA	Sample Interval	Recovered (in.)	Blow Counts / 6 in.	Retained for Analysis	Casing Type & Size	Annulus Filler	Depth (Feet)	USCS Soil Type	Soil Description	Estimated % Of: Gravel	Sand: Coarse	Sand: Medium	Sand: Fine	Silt/clay
	X						1	ML	Surface: flat grassy area Silt (ML), dark brown (7.5YR 3/2), moist, V. Soft, non-plastic, with some very fine sand & rootlets	—	—	—	5	95
									BZSSP5 SP1 0' @ 1325					

QA/QC

HDMSe00018403

MONTGOMERY WATSON



Site Sketch Map

Boring #:	MW#:	Sheet	1 of 1
Project: BZSS06		Soil Background	
Job #:	Site: SSFL		
Logged By: T. Burton	Reviewed By:		
Drilling Contractor: N/A			
Drill Rig Type/Method: N/A			
Drillers Name: N/A			
Borehole Diam./Drill Bit Type: N/A	Total Depth	0'	
	Ref. Elev.	—	
Sampler Type: Grab w/ sample container			
Depth to 1st Water (▽): — Time/Date: —	Drill Start Time/Date: 4/15/05 1000	Drill Finish Time/Date: 1040	
Depth to Water After Drilling (▼): — Time/Date: —	Well Completion Time/Date: —		
Depth to other Water Bearing Zones: —	Soil Boring Backfill Time/Date: —		

PID/OVA	Sample Interval	Recovered (in.)	Blow Counts / 6 in.	Retained for Analysis	Casing Type & Size	Annulus Filler	Depth (Feet)	USCS Soil Type	Soil Description	Estimated % Of Gravel	Sand Coarse	Sand Medium	Sand Fine	Silt/clay
	X							ML	Surface: grassy slope downslope from Chatsworth Fm SS outcrop	tr	tr	tr	25	75
									Silt w/sand (ML), dk. brown (7.5YR 4/3), dry, v. soft, non-plastic, vf to fine sand w/ trace coarse sand & fine gravel-sized sandstone fragments; rootlets visible in upper 3"					
									BZSS06 S01 0' @ 1020					

QA/QC

HDMSe00018404

MONTGOMERY WATSON

Boring #: MW#: Sheet 1 of 1

Project: BCSS09 Soil Background

Job #: Site: SSFL / Bell Canyon

Logged By: Tom Burton Reviewed By:

Drilling Contractor: N/A

Drill Rig Type/Method: N/A

Drillers Name: N/A

Borehole Diam./Drill Bit Type: N/A

Total Depth: 0'

Ref. Elev.: —

Site Sketch Map

Sampler Type: Grab w/ Sample Container

Depth to 1st Water (▽): — Time/Date: —

Drill Start Time/Date: 4/19/05 1445 Drill Finish Time/Date: 1530

Depth to Water After Drilling (▼): — Time/Date: —

Well Completion Time/Date: —

Depth to other Water Bearing Zones: —

Soil Boring Backfill Time/Date: —

PID/OVA	Sample Interval	Recovered (in.)	Blow Counts / 6 in.	Retained for Analysis	Casing Type & Size	Annulus Filler	Depth (Feet)	USCS Soil Type	Soil Description	Estimated % Of Gravel	Sand Coarse	Sand Medium	Sand Fine	Silt/clay
	X							ML	Surface: bare soil-thin cover over shale outcrop, slope	20	—	—	5	75
									Silt w/gravel (ML), dark grayish brown (10YR4/2), dry, soft, non-plastic, w/angular shale fragments up to ¼"					
									BCSS09 S01 0' @1515					

QA/QC

HDMSe00018405

MONTGOMERY WATSON

Boring #: MW#: Sheet 1 of 1

Project: BCSS11 S#1 Soil Background

Job #: Site: SSFL/Bell Cyn.

Logged By: T. Burton Reviewed By:

Drilling Contractor: N/A

Drill Rig Type/Method: N/A

Drillers Name: N/A

Borehole Diam./Drill Bit Type: N/A

Total Depth: 6'

Ref. Elev.: —

Site Sketch Map

Sampler Type: Grab w/ sample container

Depth to 1st Water (▽): — Time/Date: —

Drill Start Time/Date: 4/13/05 1430 Drill Finish Time/Date: 1440

Depth to Water After Drilling (▼): — Time/Date: —

Well Completion Time/Date: —

Depth to other Water Bearing Zones: —

Soil Boring Backfill Time/Date: —

PID/OVA	Sample Interval	Recovered (in.)	Blow Counts / 6 in.	Retained for Analysis	Casing Type & Size	Annulus Filler	Depth (Feet)	USCS Soil Type	Soil Description	Estimated % Of Gravel	Sand Coarse	Sand Medium	Sand Fine	Silt/clay
	X						1	CL	Surface: dry grass on gentle slope. Lean Clay w/ sand (CL), dark grayish brown (10YR 4/2), ~~dry~~, moist, stiff, ~~soft~~ fine to coarse sand, blocky texture, scattered rootlets & secondary porosity visible. BCSS11 S#1 @ 1435	—	5	5	5	85
							2							

QA/QC

HDMSe00018406

MONTGOMERY WATSON

Boring #: MW#: Sheet 1 of 1

Project: BCSS12 Soil Background

Job #: Site: SSFL/Bell Cyn.

Logged By: T. Burton Reviewed By:

Drilling Contractor: N/A

Drill Rig Type/Method: N/A

Drillers Name: N/A

Borehole Diam./Drill Bit Type: N/A

Total Depth: 0'

Ref. Elev.: —

Site Sketch Map

Sampler Type: Grab w/ sample container

Depth to 1st Water (▽): — Time/Date: —

Drill Start Time/Date: 4/12/05 1420 Drill Finish Time/Date: 1430

Depth to Water After Drilling (▼): — Time/Date: —

Well Completion Time/Date: —

Depth to other Water Bearing Zones: —

Soil Boring Backfill Time/Date: —

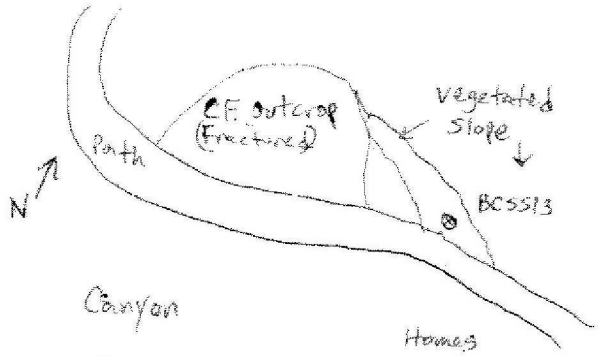
PID/OVA	Sample Interval	Recovered (in.)	Blow Counts / 6 in.	Retained for Analysis	Casing Type & Size	Annulus Filler	Depth (Feet)	USCS Soil Type	Soil Description	Estimated % Of: Gravel	Sand: Coarse	Sand: Medium	Sand: Fine	Silt/clay
	X							ML	Silt (ML), dk. reddish brown to dark brown (7.5YR3/3), moist, soft, non-plastic, vf. sand, some 1/4" - 1/2" shalestone & sandstone fragments. BCSS12 S01 0' @1425	tr			10	90

1 2 3 4 5 6 7 8 9 10 11 12

QA/QC

HDMSe00018407

MONTGOMERY WATSON



[No Scale] Site Sketch Map

Boring #: MW#:	Sheet 1 of 1
Project: BCSS13	Boeing SSFL RFI
Job #:	Site: Bell Canyon / SSFL
Logged By: T. Burton	Reviewed By:
Drilling Contractor: N/A	
Drill Rig Type/Method: N/A	
Drillers Name: N/A	
Borehole Diam./Drill Bit Type: N/A	Total Depth: 0' / Ref. Elev.: —
Sampler Type: grab w/ sample containers	
Depth to 1st Water (▽): — Time/Date: —	Drill Start Time/Date: 4/14/05 10:15 Drill Finish Time/Date: 11:15
Depth to Water After Drilling (▼): — Time/Date: —	Well Completion Time/Date: —
Depth to other Water Bearing Zones: —	Soil Boring Backfill Time/Date: —

PID/OVA	Sample Interval	Recovered (in.)	Blow Counts / 6 in.	Retained for Analysis	Casing Type & Size	Annulus Filler	Depth (Feet)	USCS Soil Type	Soil Description	Estimated % Of: Gravel	Sand: Coarse	Sand: Medium	Sand: Fine	Silt/clay
	X							SM	Surface: outcrop slope; wildflowers adjacent to horse trail	20	10	30	20	20
									@ 0' Silty sand w/ gravel (SM), dark yellowish brown (10YR 4/2), dry, very loose, fine to coarse grains, with up to 1/2" subangular sandstone fragments					
									BCSS13 S01 @ 0' @ 1100					
									notes:					
									Chatsworth Fm. Sandstone extremely weathered in place					

QA/QC

HDMSe00018408

MONTGOMERY WATSON

Boring #: MW#: Sheet 1 of 1

Project: BCS514 SSFL Soil Background

Job #: Site: Bell Canyon

Logged By: T. Burton Reviewed By:

Drilling Contractor: N/A

Drill Rig Type/Method: N/A

Drillers Name: N/A

Borehole Diam./Drill Bit Type: N/A

Total Depth: 0'

Ref. Elev.: —

Site Sketch Map

Sampler Type: Grab w/ sample container

Depth to 1st Water (▽): — Time/Date: —

Drill Start Time/Date: 4/12/05 1315 Drill Finish Time/Date: 1325

Depth to Water After Drilling (▼): — Time/Date: —

Well Completion Time/Date: —

Depth to other Water Bearing Zones: —

Soil Boring Backfill Time/Date: —

PID/OVA	Sample Interval	Recovered (in.)	Blow Counts / 6 in.	Retained for Analysis	Casing Type & Size	Annulus Filler	Depth (Feet)	USCS Soil Type	Soil Description	Estimated % Of: Gravel	Sand: Coarse	Sand: Medium	Sand: Fine	Silt/clay
	X						0	ML	Sandy silt (ML), grayish brown (10YR5/2), dry, stiff (loose in sample), non-plastic, vf-fine sand, some fine sandstone gravels (1/2" diam)	5%	—	—	30%	65
							1							
							2							
							3							
							4							
							5		Soil 0' Collected @ 1320 East side of drainage; flat spot					
							6							
							7							
							8							
							9							
							10							
							11							
							12							

QA/QC

HDMSe00018409

ATTACHMENT A-2

SAMPLE LOCATION PHOTOGRAPHS

Sample Location BGSS01

Sample Location BGSS02

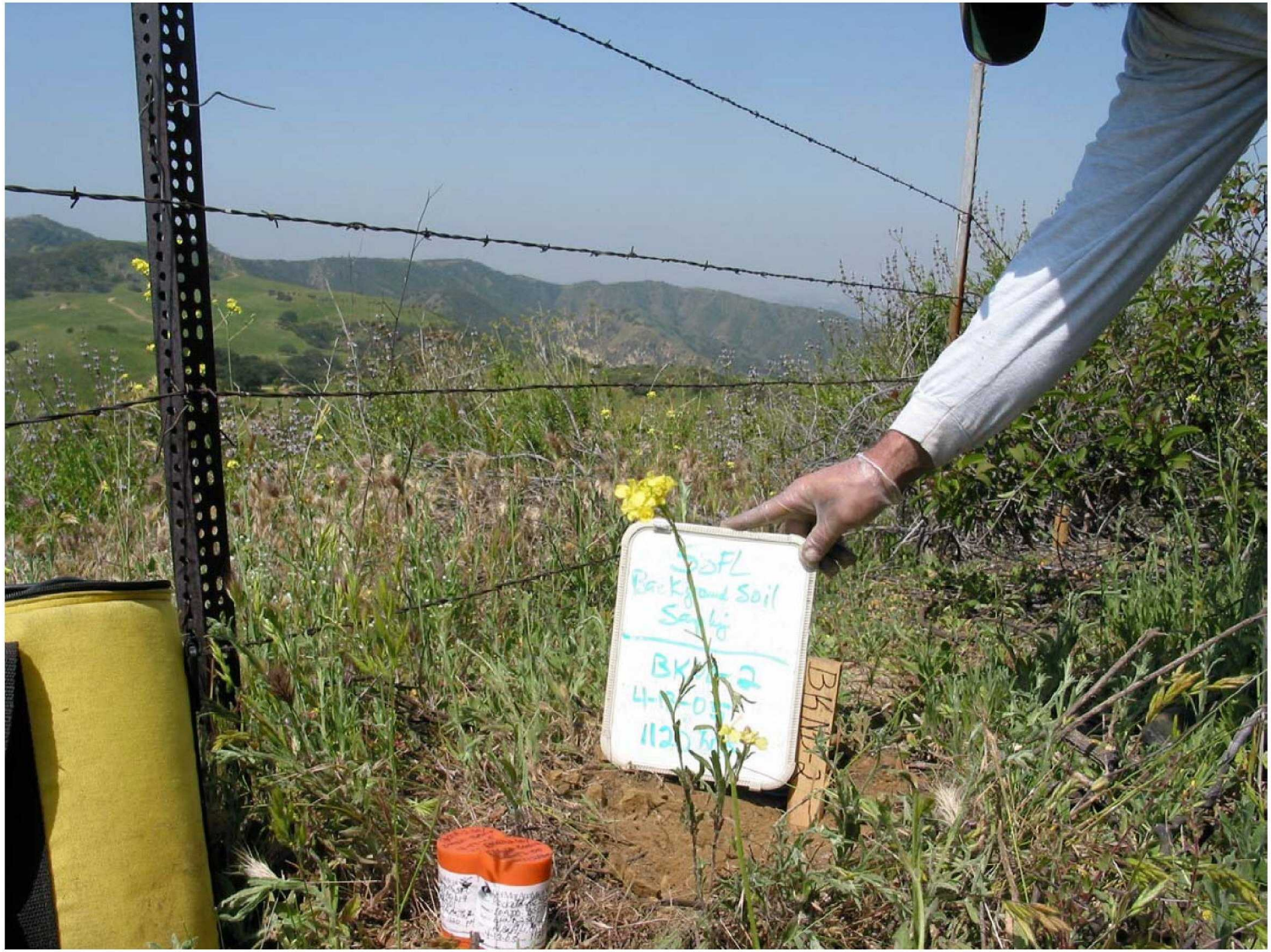
Sample Location BGSS03

Sample Location BGSS04

Sample Location BGSS06

Sample Location BGSS07

Sample Location BKND-1



Sample Location BKND-2

Sample Location BKND-3

Sample Location BKND-4

Sample Location BKND-5

Sample Location BKND-6

Sample Location BKND-7

Sample Location BZSS01

Sample Location BZSS02

Sample Location BZSS03

Sample Location BZSS04

Sample Location BZSS05

Sample Location BZSS06

Sample Location SGSS01

Sample Location BG01

Sample Location BG02

Sample Location BG04

Sample Location BCSS09

Sample Location BCSS11

Sample Location BCSS12

Sample Location BCSS13

Sample Location BCBS09

Sample Location BCSS14